

# Recovery Plan Action Status

**Plan Name: Stephanomeria malheurenensis (Malheur Wire-lettuce) Recovery Plan**

**Plan Status: Final**

**Plan Date: 21-Mar-91**

**Lead Agency: USFWS**

**Lead Office: Oregon Fish And Wildlife Office**

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231-6179 )**

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Malheur wire-lettuce (Stephanomeria malheurenensis)	1	11	Secure critical habitat from threats of surface mining.	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management	Management: Land Use	Internal Administrative	BLM designated as botanical area (ACEC)
Malheur wire-lettuce (Stephanomeria malheurenensis)	1	12	Hand rogue cheatgrass from around plants.	Discontinued	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Volunteer	Started in 1985 with volunteers. Recent survey of the site indicates a great deal of the area is now free of cheat grass. Additional weeding may need to be done in the future.
Malheur wire-lettuce (Stephanomeria malheurenensis)	1	13	Control predation from native herbivores and domestic grazing	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	Critical Habitat fenced to exclude livestock. Four rodent proof exclosures built around experimental plantings in 1987. These are currently maintained and planned to be retained indefinitely into the future.
Malheur wire-lettuce (Stephanomeria malheurenensis)	1	14	Protect site from range fires.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	Fire breaks constructed around Critical habitat & being maintained. No fires have occurred within the ACEC since time of listing. Seedings around the area help to limit fire spread.

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Malheur wire-lettuce (Stephanomeria malheurensis)	2	21	Identify potential habitats.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Contract	FWS is working together with a group of interested parties including BLM, Dr. Gottlieb, Oregon department of Agriculture, Oregon State University, and Malheur National Wildlife Refuge to select a site to introduce an additional population of STMA in the wild. In 1986 Davidson references potential sites at Double O, near Fields, Denio, and Mickey Dunes where S.exigua is present.
Malheur wire-lettuce (Stephanomeria malheurensis)	2	22	Search potential habitat.	Ongoing Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Contract	A working group interested in the recovery of Malheur Wire lettuce was formed in 2006. The group went to the site where STMA grows and surveyed other sites in the vicinity to select an additional suitable site to introduce a "backup" population of STMA.
Malheur wire-lettuce (Stephanomeria malheurensis)	2	23	Create/maintain a file of new sites	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	
Malheur wire-lettuce (Stephanomeria malheurensis)	2	31	Solicit private landowner support.	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition: Management Agreement	Internal Field Assistance	Action not initiated to date. Most suitable habitat may be on federal land rather than private lands. The plant is not known to inhabit any other location in addition to the type location.

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Malheur wire-lettuce (Stephanomeria malheurensis)	2	32	Secure Federal sites.	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation	Internal Field Assistance	The only site known to be inhabited by STMA is the type location site which has been secured as an ACEC by BLM and designated as critical habitat by US FWS. No additional sites have been discovered.
Malheur wire-lettuce (Stephanomeria malheurensis)	2	33	Develop habitat management plan.	Partially Complete	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: General	Internal Technical Assistance	The Conservation Agreement signed Sept 1990 had an expiration of five years after signed. Work outlined in the CA has not been completed. The CA needs to be re-done and routed for signatures.
Malheur wire-lettuce (Stephanomeria malheurensis)	2	34	Implement Habitat Management Plans.	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	No habitat management plans have been submitted to the FWS.
Malheur wire-lettuce (Stephanomeria malheurensis)	2	411	Map known plant locations.	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: General	Internal Technical Assistance	Known populations mapped Maps may be located at Burns BLM Office? Davidson (1987) refers to maps completed and filed at BLM Office.
Malheur wire-lettuce (Stephanomeria malheurensis)	2	412	Map any additional new plant sites as well as old sites.	Ongoing Current	FY 2007		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: General	Internal Technical Assistance	No new population. An additional site may be introduced if an appropriate site can be selected, at which time the site will be mapped.

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Malheur wire-lettuce (Stephanomeria malheurenensis)	2	413	Establish permanent plots and photopoints.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	Plots and photo points were established during teh experimental re-introduction in 1987. additional plots and photos will be established during the proposed re-introduction in 2007.
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	414	Conduct census.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	Census started in 1985 & done yearly.
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	421	Examine effects of allelopathy.	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Genetics	Graduate Student	Research started by Boise State University in 1987. Davidson, Carla. 1987
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	422	Examine effects of competition.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Competition	Graduate Student	Research currently being conducted by Boise State. Brauner paper
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	423	Determine abiotic requirements.	Unknown			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: General	Graduate Student	Research currently being conducted by Boise State.
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	424	Determine biotic factors affecting population expansion.	Partially Complete	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Population Surveys	Graduate Student	Research currently being conducted by Boise State. Additional information is needed and will be collected in conjunction with re-introduction in 2007.
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	431	Determine impacts of small mammals.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research	Contract	Study proposal needed

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Malheur wire-lettuce (Stephanomeria malheurenensis)	2	432	Determine impacts of insects.	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Management Techniques	Contract	Study proposal needed
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	433	Determine impacts of herbicides.	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Management Techniques	Contract	Study proposal needed
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	434	Examine impacts of mining.	Obsolete			U.S. Bureau of Land Management	Research: Habitat Status	Contract	Not currently considered an active threat, no mining activity currently contemplated
Malheur wire-lettuce (Stephanomeria malheurenensis)	2	435	Examine impacts of fire.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Habitat Status	Contract	Study proposal needed
Malheur wire-lettuce (Stephanomeria malheurenensis)	3	44	Determine delisting criteria.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning	Internal Technical Assistance	Objectives for downlisting are included in the recovery plan. No delisting objective was established at that time.
Malheur wire-lettuce (Stephanomeria malheurenensis)	3	511	Determine impacts of seed harvest on existing populations.	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management	Research: Propagation	Species Expert	Task completed in 1988 by whom?
Malheur wire-lettuce (Stephanomeria malheurenensis)	3	512	Develop criteria for storage of seeds.	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Research: Propagation	Internal Technical Assistance	Task completed in 1986
Malheur wire-lettuce (Stephanomeria malheurenensis)	3	513	Select seed storage facility.	Complete	Prior to FY 1995	Prior to FY 1995	U.S. Fish and Wildlife Service, Endangered Species Division	Management: Planning	Internal Technical Assistance	Task completed in 1986. Seeds currently stored at Berry Botanical Garden, Portland, Or.
Malheur wire-lettuce (Stephanomeria malheurenensis)	3	514	Collect seeds.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Propagation	Internal Technical Assistance	Collection started in 1987 and continues as needed.

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Malheur wire-lettuce (Stephanomeria malheurensis)	3	515	Store seeds.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management	Management: Propagation	Contract	Seeds put in Berry Garden seed bank in 1987. Additional seeds added over the past several years.
Malheur wire-lettuce (Stephanomeria malheurensis)	3	516	Determine seed viability.	Ongoing Current	Prior to FY 1995		U.S. Fish and Wildlife Service, Endangered Species Division	Research: Propagation	Contract	Started in 1988. Studies have determined viability of stored seeds is very high (almost 100%). Earliest seed collection dates recorded at BBG is 1983.
Malheur wire-lettuce (Stephanomeria malheurensis)	3	52	Identify suitable sites for reestablishment.	Ongoing Current	FY 2007		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Contract	On June 7, 2006 a review of potential sites was initiated. Sites within the type locality were observed, as well as a potential site for introduction of an additional population. In Spring of 2007 approximately 450 seedlings were planted. Mortality of transplants was high and success has not been thoroughly assessed at this date (09/06/2007).
Malheur wire-lettuce (Stephanomeria malheurensis)	3	531	Develop criteria for selecting propagation facility.	Complete	FY 2007	FY 2007	U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition	Internal Administrative	ODA has been selected for propagation of seeds provided by Berry Botanical Garden and to be re-introduced to the type locality site as well as a potential introduction site.

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Malheur wire-lettuce (Stephanomeria malheurensis)	3	532	Select propagation facility.	Complete	FY 2007	FY 2007	U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition	Contract	Oregon Department of Agriculture in association with Oregon State University has facilities and expertise to grow out seeds stored by Berry Botanical Garden to be planted as seedlings.
Malheur wire-lettuce (Stephanomeria malheurensis)	3	54	Prepare sites for planting.	Ongoing Current	FY 2007		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition	Contract	Contract will be with expert plant specialist at OSU. Graduate students will also assist. Seedlings were planted in May 2007.
Malheur wire-lettuce (Stephanomeria malheurensis)	3	55	Plant sites.	Ongoing Current	FY 2007		U.S. Fish and Wildlife Service, Endangered Species Division	Acquisition	Contract	Contract to OSU and Oregon Department of Agriculture to plant out seedlings at the STMA site to recover the plant from extinction in the wild. Seedlings were planted in May 2007, 2008, and 2009. Success was varied. Many plants died the first two years. a low rate of recruitment from prior year's plantings has been documented. Another attempt at re-establishing plants in the wild is planned for 2010.

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Malheur wire-lettuce (Stephanomeria malheurensis)	3	56	Monitor plantings.	Ongoing Current	Prior to FY 1995		U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, Endangered Species Division	Management: Reintroduction	Graduate Student	Monitoring of the population in the long term has been accomplished primarily by BLM botonists. Over the years various other botonists has contributed to monitoring. With the ongoing reintroduction effort, the ODA contract will include a monitoring component.